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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,827	11/21/2003	Roman J. Hamerski	12263-16	1334
27526 7590 . 06/15/2005			EXAMINER	
	L SANDERS PEPER N	ROSE, KI	ROSE, KIESHA L	
4801 Main Stree	et		ART UNIT	PAPER NUMBER
Suite 1000			ARTORIT	TALER NOMBER
KANSAS CITY, MO 64112			2822	

DATE MAILED: 06/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Aa
	Application No.	Applicant(s)
	10/718,827	HAMERSKI ET AL.
Office Action Summary	Examiner	Art Unit
	Kiesha L. Rose	2822
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a construction of the period for reply is specified above, the maximum statutory perions are period for reply within the set or extended period for reply will, by state any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thi iod will apply and will expire SIX (6) MOI stute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 18 2a) This action is FINAL. 2b) T 3) Since this application is in condition for allow closed in accordance with the practice under the condition of the cond	his action is non-final. wance except for formal mat	·
Disposition of Claims		
 4) Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) 11-20 is/are withdensity is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and 	rawn from consideration.	
Application Papers		
9) The specification is objected to by the Exam		
10) The drawing(s) filed on is/are: a) a		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corrupt of the oath or declaration is objected to by the	rection is required if the drawing	y(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documed 2. Certified copies of the priority documed 3. Copies of the certified copies of the papplication from the International Burd * See the attached detailed Office action for a line of the papplication from the International Burd * See the attached detailed Office action for a line of the papplication from the International Burd * See the attached detailed Office action for a line of the papplication for a line of the papplication from the International Burd * See the attached detailed Office action for a line of the papplication for a line of the papplic	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/	Paper No.	Summary (PTO-413) s)/Mail Date Informal Patent Application (PTO-152)

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Paper No(s)/Mail Date 3/11/04.

6) Other: ____.

DETAILED ACTION

This Office Action is in response to the election filed 18 May 2005.

Election/Restrictions

Claims 11-20 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected method of making a semiconductor device, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 18 May 2005.

Applicant's election without traverse of claims 1-10 in the reply filed on 18 May 2005 is acknowledged.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 5 recites the limitation "the third layer" in claim 5. There is insufficient antecedent basis for this limitation in the claim.

Claim 10 recites the limitation "first layer dopant" in claim 10. There is insufficient antecedent basis for this limitation in the claim.

Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 9 discloses the first layer dopant to comprise boron and

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cesium and the current localization region to comprise phosphorus, the specification does not disclose this limitation. The specification discloses that cesium is used as the dopant for the current localization region.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical

Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-6 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Frisina (U.S. Patent 6,809,383).

Frisina discloses a high voltage semiconductor device (Fig. 4) that contains a first layer (3) of semiconductor material of a first layer conductivity type with first and second sides where the first layer is formed of arsenic, a second layer (2) of semiconductor material of a second conductivity type having first and second sides with the first side of

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the first layer adjacent the second side of the second side, a current localization region (20) positioned in the first layer of semiconductor material and in the second layer and adjacent to the first side of the first layer and extending beyond the first side of the first layer into the second layer, the first and second conductivity are the same conductivity N, the second layer varies in width, such that a central portion of the second layer is thinner than sides of the second layer

A third laver (1) of semiconductor material of a third conductivity type having first and second sides where the first side is adjacent the second side of the second layer, wherein the distance in a central portion of the device from the current localization region to the third layer is less than a distance from the first layer to the third layer at the edge of the device.

The current localization region dopant is substantially the same as the first layer dopant where the dopant for both layers is boron (Column 3, lines 6-7 and 17-30)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Frisina in view of Porter et al. (U.S. Publication 2002/0094627).

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Frisina discloses all the limitations except for the current localization doped with phosphorus. Whereas Porter discloses an electrostatic discharge protection device (Fig. 5) that contains a first layer (75) and a current localization region (95/97) where the first layer is formed of arsenic and the current localization region can be formed of phosphorus. Since the first layer is formed of arsenic and current localization is formed of phosphorus the current localization region diffuses faster than the first layer dopant. The conductivity of the first layer and current localization region can be interchanged from n-type to p-type. (Page 3, Paragraph 24) The first layer and current localization are both n-type and doped with either arsenic or phosphorus since doping a silicon layer to make it an n-type conductivity is implant with arsenic or phosphorus which is well known in the art. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Frisina by incorporating the current localization region to be doped with phosphorus since the change of conductivity is well known in the art and to make the conductivity n-type it is doped with either arsenic or phosphorus as taught by Porter.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiesha L. Rose whose telephone number is 571-272-1844. The examiner can normally be reached on M-F 8:30-6:00 off 2nd Mondays.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KLR

AMIR ZARABIAN
SUPERVISORY PATENT EXAMINES
TECHNOLOGY CENTER 2800